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[PDF] FERMAT

MTG Models - fermat.ece.vt.edu

... sequence of uninterruptible computation represented as a Control Data Flow Graph ...

16] will be used in the near future to ... initial state to wait for the next token ...

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accesses. ... is a triplet consisting of a object and thread identification as ...

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... very similar to parallel composition but the split control threads of p ... community

process definition can be formally modeled using a wait-for-graph(WFG)[5 ...

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... Suspending is easy for near accesses. ... In the optimal case, threads have never to

wait; the time ... for a program with multiple and migrating threads per cluster ...

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... the execution time of the longest thread before grouping. ... En aquest report es descriu

Graph Traverse Scheduling ... code when there are no cyclic dependence chains ...

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JT Buck - 1993 - ptolemy.eecs.berkeley.edu

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TJ Reynolds, ME Waite, FZ Ieromnimon - <http://cswwww.essex.ac.uk>, 1995 - essex.ac.uk

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RKG Agrawal, KTGM Zoppetti, GR Gao · research.ibm.com

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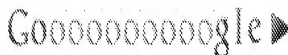
R Kumar, G Agrawal, K Theobald, GM Zoppetti, GR ... - The Mid-Atlantic Student Workshop on Programming Languages ..., 2001 - research.ibm.com

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M Ronsse, K De Bosschere - Automated Software Engineering, 2002 - Springer

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Key authors: K Havelund - D Stoutamire - M Lowry - W Visser - S Omohundro



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[CITATION] Communication **Deadlock Detection** of Inter-organizational Workflow Definition - [all 3 versions »](#)

J Shim, D Han, H Kim - Proceedings of the Second International Workshop on ..., 2002 - Springer

... is very similar to parallel composition but the split control **threads** of p ... s, t).

This set expression represents the directed edge of **wait-for-graph** model ...

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M Ronsse, K De Bosschere - Automated Software Engineering, 2002 - Springer

... a program execution with a data race **near** the end ... Eg the circular **wait** can be avoided

by ordering the ..., by checking for cycles in the resource allocation **graph** ...

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... the execution time of the longest **thread** before grouping. ... En aquest report es descriu

Graph Traverse Scheduling ... code when there are no **cyclic** dependence chains ...

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Y Eytani, K Havelund, SD Stoller, S Ur - Concurrency and Computation: Practice and Experience, 2006 - havelund.com

... Specifically, they look for cycles in lock **graphs**. ... and race detectors are planned

in the **near** future ... Critical-Section, Missing Condition-For- **Wait**, Unguarded if ...

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Combined Task and Message Scheduling in Distributed Real-Time Systems - [all 11 versions »](#)

TF Abdelzaher, KG Shin - IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, 1999 - doi.ieeeecs.org

... complexity of the combined problem, optimality is guaranteed in the second dimension,

while a **near** optimal solution ... Thus, there is no possibility of **deadlock**. ...

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[PDF] **Cyclic debugging** for psather, a parallel object-oriented programming language - [all 2 versions »](#)

M Minas - Proc. DAGS - informatik.uni-erlangen.de

... when accessing a shared object and to **wait** until the ... Suspending is easy for **near**

accesses. ... is a triplet consisting of a object and **thread** identification as ...

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... Suspending is easy for **near** accesses. ... In the optimal case, **threads** have never to **wait**, the time ... for a program with multiple and migrating **threads** per cluster ...

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[Autolocker: synchronization inference for atomic sections - all 11 versions -](#)

B McCloskey, F Zhou, D Gay, E Brewer - ACM SIGPLAN Notices, 2006 - portal.acm.org

... If two **threads** execute simultaneously, one calling f(x ... the computation histories to generate a **graph** of depen ... If the dependencies are **cyclic**, warn of a possible ...

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[PDF] Toward a Benchmark for Multi-Threaded Testing Tools - all 6 versions -

Y Eytani, K Havelund, S Stoller, S Ur - Concurrency and Computation: Practice and Experience, 2005 - ilarc.nasa.gov

... Specifically they look for cycles in lock **graphs**. ... The other **thread** will for- ever **wait** (busily), and nothing ... In the **near** future, we expect to get additional ...

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[PDF] An Approach to Multi-User KBMS in Workstation/Server Environments - all 4 versions -

F de Ferreira Rezende, T Härder - www.dvs.informatik.uni-kl.de

... The Working Memory (WM) embodies the **near**-by-the ... objects, transactions may sometimes have to **wait** for other ... to control the locks and the **graph** structure built ...

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[Static infinite wait anomaly detection in polynomial time](#) - [all 2 versions »](#)

SP Masticola, BG Ryder - Proceedings of the 1990 International Conference on Parallel ..., 1990 - citeseer.ist.psu.edu

... statically derivable program representation, the sync graph, to certify ... **deadlock**)

is NP complete [15] resp ... 13 15] static **detection** of infinite wait anomalies is ...

[Cited by 34](#) - [Related Articles](#) - [Cached](#) - [Web Search](#)

[Antipattern-based detection of deficiencies in Java multithreaded software](#) - [all 4 versions »](#)

HH Hallal, E Aikacem, WP Tunney, S Boroday, A ... - Quality Software, 2004, QSIQ 2004. Proceedings. Fourth ..., 2004 - ieeexplore.ieee.org

... acquisition among the threads involved in the **deadlock**. ... Synchronized method call

in cycle of lock graph. LiveLock 1.Unsynchronized spin-wait, (E_Jlin, FindBugs ...

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

[Applying Static Analysis to Large-Scale, Multi-threaded Java Programs](#) - [all 15 versions »](#)

C Arho, A Biere - Proc. 13th ASWEC, 2001 - doi.ieeecomputersociety.org

... lock- ing orders, or problems with wait and notify ... blocks in the method call graph

and treat ... Evaluating **Deadlock Detection** Methods for Concurrent Software. ...

[Cited by 43](#) - [Related Articles](#) - [Web Search](#)

[Pulse: A Dynamic Deadlock Detection Mechanism Using Speculative Execution](#) - [all 9 versions »](#)

T Li, CS Ellis, AR Lebeck, DJ Sorin - usenix.org

... to implement, but at the cost of detecting fewer types of **deadlock**. Under this model,

a general resource graph takes a much simpler form as a wait-for-graph ...

[Cited by 15](#) - [Related Articles](#) - [Web Search](#)

[\[CITATION\] Static deadlock detection for Java libraries](#) - [all 11 versions »](#)

A Williams, W Thies, MD Ernst - Proc. 2005 European Conference on Object-Oriented ..., 2005 - Springer

... Static **Deadlock Detection** for Java Libraries 609 ... v n) | v 1 := v 2 . f | wait(v) |

stmt ... pp, T ∈ HeapObject = ProgramPoint × Type g ∈ Graph = directed-graph ...

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[\[PDF\] A MODEL-BASED DESIGN-FOR-VERIFICATION APPROACH TO CHECKING FOR DEADLOCK IN MULTI-THREADED ...](#) - all 6

[versions »](#)

B Sarna-Starosta, REK Stirewalt, LK Dillon - International Journal of Software Engineering and Knowledge ..., 2007 - cs.msu.edu
... from T 1 to T 2 . Our **deadlock** analysis involves an exhaustive search of the model,
looking for a state whose **wait-for graph** contains a knot, ie, a ...

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[RacerX: effective, static detection of race conditions and deadlocks](#) - all 19 versions »

D Engler, K Ashcraft - Proceedings of the nineteenth ACM symposium on Operating ..., 2003 - portal.acm.org
... over all roots in the flow **graph** and calls ... Both threads will then **deadlock** while
they attempt to ... to provide mutual exclusion or (2) signal-wait semaphores used ...

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[Efficient and precise datarace detection for multithreaded object-oriented programs](#) - all 11 versions »

JD Choi, K Lee, A Loginov, RO'Callahan, V Sarkar, ... - ACM SIGPLAN Notices, 2002 - portal.acm.org
... datarace de- tection for **multithreaded** object-oriented ... and performing the final datarace
detection phase off ... by executing a set of multi- threaded Java programs ...

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[\[CITATION\] Dynamic Deadlock Analysis of Multi-threaded Programs](#)

S Bensalem, K Havelund - Haifa Verification Conference - Springer
... for resource deadlocks in Java, the **wait** and notify ... algorithm consists of finding
cycles in a lock **graph**. ... Dynamic **Deadlock Analysis of Multi-threaded Programs** ...

[Cited by 5](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[A Deadlock Detection Tool for Concurrent Java Programs](#) - all 2 versions »

C DEMARTINI, R IOSIF, R SISTO - doi.wiley.com
... have no effect if the locked object **wait** queue is ... a smaller number of states in the
reachability **graph**. ... **DEADLOCK DETECTION TOOL FOR CONCURRENT JAVA PROGRAMS** ...

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Key authors: [K Havelund](#) - [S Stoller](#) - [C Demartini](#) - [S Ur](#) - [S Masticola](#)

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M [Multithreading](#), T [Implementing](#) - doi.wiley.com

... [sharedVariable<>](#), 37-38 [class TDTThread](#), 34-37 [deadlock detection](#), 154-157 ... 407 [WAIT](#)

[FAILED \(Win32\)](#), 123, 125 [Wait-for graph](#), 154 [WaitForMultipleObjects](#) ...

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G DEMARTINI, R IOSIF, R SISTO - doi.wiley.com

... a smaller number of states in the reachability [graph](#). ... [DEADLOCK DETECTION TOOL FOR](#)

[CONCURRENT JAVA PROGRAMS](#) ... to represent the object's associated [wait queue](#). ...

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[Static analysis of Java multithreaded and distributed applications](#) - all 4 versions »

G Demartini, R Sisto - [Proceedings of the International Symposium on Software ...](#), 1998 - doi.ieeecomputersociety.org

... visited, without however reducing the [detection](#) capabilities ... a [Java Reduced Control](#)

[Flow Graph \(JRCFG](#) ... nized blocks, the invocationsof the [wait\(\)](#) , [notify\(\)](#) and ...

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[\[PDF\] Beyond Multiprocessing... Multithreading the SunOS Kernel](#) - all 67 versions »

J Eykholt, S Kleiman, S Barton, R Faulkner, A ... - [Proceedings of the Summer USENIX Conference](#), 1992 - on.openpneers.org

... user-level libraries for use in [multithreaded](#) applica- tion ... owner's status in the

[spin wait](#) loop 2 ... interrupting while the object is locked, causing [deadlock](#). ...

[Cited by 113](#) - [Related Articles](#) - [View as HTML](#) - [Web Search](#)

[CARAT: a testbed for the performance evaluation of distributed database systems](#)

W Kohler, BC Jeng - [Proceedings of 1986 ACM Fall joint computer conference table ...](#), 1999 - portal.acm.org

... locking protocol with distributed [deadlock detection](#), a distributed ... locking protocol

with distributed [deadlock de- tection](#) ... due to its [multi-threaded](#) nature. ...

[Cited by 6](#) - [Related Articles](#) - [Web Search](#)

[\[PDF\] 'Deadlock resolution in networks employing connection-based adaptive routing](#) - all 4 versions »

YF Turner, Y Tamir - [Computer Science Department Technical Report CSD-960032](#), ... - cs.ucla.edu

... the unmapped packet still has to [wait](#) for the ... non-neighbor nodes in the virtual network

[graph](#). ... that they will disappear eventually under [deadlock-free](#) routing. ...

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[Spin Detection Hardware for Improved Management of Multithreaded Systems - all 3 versions ...](#)

T Li, AR Lebeck, DJ Sorin - IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, 2006 - doi.ieee.computersociety.org

... form a cycle in the control flow **graph** of the ... when multiple threads of a program

wait on each ... system mechanism that dynamically detects **deadlock** (or livelock ...

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[The performance of database replication with group multicast - all 6 versions ...](#)

J Holliday, D Agrawal, A El Abbadi - Fault-Tolerant Computing, 1999. Digest of Papers. Twenty- ..., 1999 - ieeexplore.ieee.org

... Each site DBMS has a **deadlock detection** routine for use with protocols that are

susceptible to local deadlocks, ie, A1 and A2. A **Wait-For-Graph** is maintained ...

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[Bandera: extracting finite-state models from Java source code - all 20 versions ...](#)

JC Corbett, MB Hatchiff, J Laubach, S Pasareanu, ... - Software Engineering, 2000. Proceedings of the 2000 ..., 2000 - ieeexplore.ieee.org

... Properties checked include freedom from **deadlock**, simple assertions, state ... **queue**. ...

developed slicing techniques based on program dependence **graphs**, eg, [17]. ...

[Cited by 745](#) - [Related Articles](#) - [Web Search](#) - [BL Direct](#)

[Deadlock resolution via exceptions for dependable Java applications - all 3 versions ...](#)

F Zeng - Dependable Systems and Networks, 2003. Proceedings. 2003 ..., 2003 - ieeexplore.ieee.org

... to the ready state or the **wait** state. ... Traditional **deadlock detection** techniques based

on structural patterns of ... a time-varying runtime dependency **graph** G at ...

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